dlc 96000439
(cont.)

X Collection

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Page: 1

Barcode Number	Box Number	Total of Volumes	Call Number
LIBRARY OF CONGRESS 0 029 767 400 6	1938 1 BOX	3	TH443– TH900
	1939	9	TH1065– TH5501
LIBRARY OF CONGRESS 0 029 767 401 8	1940	5	TH5606 no.1-5 (1950)
LIBRARY OF CONGRESS 0 029 767 402 A	1941 1 BOX	3	TH5606.Z9 no.1-3 (1948-52)
	1942	8	TH7201.A5– TH9148
LIBRARY OF CONGRESS 0 029 767 406 7	1945	7	TH9151 no.1-7 * (1950-52)
LIBRARY OF CONGRESS 0 029 767 403 1	1943	100	TH9237.U5 no.1-100 (1920-66)
LIBRARY OF CONGRESS 0 029 767 404 3	1944A	51	TH9237.U5 no.1-51 (1921-60)

* Follows Call # Sequence

X Collection

INDEX

Page: 2

Barcode Number	Box Number	Total of Volumes	Call Number
LIBRARY OF CONGRESS 0 029 767 405 5	1944B	12	TH9237.U5 no. 52-63 (1953-60)
LIBRARY OF CONGRESS 0 029 767 407 9	1946A	54	TH9237.U5 no. 1-54 (1921-67)
LIBRARY OF CONGRESS 0 029 767 408 0	1946B	24	TH9237.U5 no. 55-78 (1968-Undated)
LIBRARY OF CONGRESS 0 029 767 413 4	1947A	90	TH9237.U5 no. 1-90 (1919-53)
LIBRARY OF CONGRESS 0 029 767 414 6	1947B	16	TH9237.U5 no. 91-106 (1953-65)
LIBRARY OF CONGRESS 0 029 767 415 8	1948A	100	TH9237.U5 no. 1-100 (1947-63)
LIBRARY OF CONGRESS 0 029 767 416 A	1948B	28	TH9237.U5 no. 101-128 (1964-Undated)

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AIR CONDITIONERS, CENTRAL COOLING

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NOVEMBER, 1964

X - 7# 9237

Subject 560 **September 2, 1964** - US

#103

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32 **A switch, a lampholder, an attachment-plug receptacle, a motor-attachment plug, or similar component shall be mounted securely and, except as noted in paragraphs 32A and 32B, shall be prevented from turning. See paragraph 33.** 32

32A The requirement that a switch be prevented from turning may be waived if all four of the following conditions are met: 32A

A. The switch is to be of a plunger or other type that does not tend to rotate when operated. (A toggle switch is considered to be subject to forces that tend to turn the switch during normal operation of the switch.)

B. Means for mounting the switch make it unlikely that operation of the switch will loosen it.

C. Spacings are not to be reduced below the minimum required values if the switch rotates.

D. Normal operation of the switch is to be by mechanical means rather than by direct contact by persons.

32B A lampholder of the type in which the lamp cannot be replaced (such as a neon pilot or indicator light in which the lamp is sealed in by a nonremovable jewel) need not be prevented from turning if rotation cannot reduce spacings below the minimum required values. 32B

33 Means for preventing the turning mentioned in paragraph 32 is to consist of more than friction between surfaces — e.g., a suitable lock washer, properly applied, is acceptable as the means for preventing a small stem-mounted switch or other device having single-hole mounting means from turning. 33

Revised paragraphs 32 and 33 and added paragraphs 32A and 32B effective September 2, 1964 — Standard for Home-Laundry Equipment, Second Edition, UL 560

134A If the appliance has a single frequency rating, the test is to be made at that frequency. An appliance rated "50–60 cycles" is to be tested on 60-cycle alternating current. 134A

Added paragraph 134A effective September 2, 1964 — Standard for Home-Laundry Equipment, Second Edition, UL 560

201A **A warning shall be included in the marking on a clothes dryer or in the operating instructions provided with the appliance. This warning shall consist of the following wording or its equivalent:** 201A

A. For a dryer which includes a "no-heat" setting in its controls — "DO NOT USE HEAT WHEN DRYING ARTICLES CONTAINING FOAM RUBBER OR RUBBER-LIKE MATERIALS."

B. For any other dryer — "DO NOT DRY ITEMS CONTAINING FOAM RUBBER OR RUBBER-LIKE MATERIALS IN THIS DRYER."

Added paragraph 201A effective September 2, 1964 — Standard for Home-Laundry Equipment, Second Edition, UL 560

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202 The temperature test is to be conducted with the appliance fully loaded. It is to be operated through complete normal cycles of operation until temperatures become constant. Water temperature and pressure are to be as indicated in paragraph 237. A free-standing machine is to be arranged for test as described in paragraph 188. Values of temperature rises more than those indicated in items 5, 11, 13, and 14 in Table 111 may be accepted on Class A or Class B insulation on the motor coils of a combination washer-[illegible] 202

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PRINTED-WIRING BOARDS

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OCTOBER, 1965

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First Edition

SEPTEMBER, 1965

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223 Except as noted in paragraphs 224 and 224A, a fuseholder, panelboard, flasher, switch, or similar device, or any combination thereof, if on or within the body of the sign, shall be mounted in one or more separate, accessible compartments. Such a compartment shall not be utilized to enclose any portion of a lampholder and shall enclose only that wiring necessary for connection to the device or devices mounted within the compartment. 223

Revised paragraph 223 effective November 16, 1965 —
Standard for Electric Signs, Eighth Edition, UL 48

102A The requirement in paragraph 101 does not apply to a supply cord suitable for use at a temperature of 90 C or 105 C. 102A

103 The braid or insulation (without a braid) on the grounding conductor of a flexible cord shall be green or shall be green with a yellow tracer. See paragraph 275. 103

Added paragraph 102A and revised paragraph 103 effective November 16, 1965 —
Standard for Electric Signs, Eighth Edition, UL 48

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141 Except as noted in paragraphs 142–149A, the high-voltage wiring of a sign shall employ gas-tube-sign cable of the proper voltage rating or shall be wired completely with uninsulated, solid, nonferrous conductors no smaller than No. 10 Awg. Sharp bends in the conductors shall be avoided. 141

Revised paragraph 141 effective November 16, 1965 —
Standard for Electric Signs, Eighth Edition, UL 48

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299 The form denomination for each sign is determined by a calculation which takes into consideration the number of electrical components, their electrical ratings, etc. The computation results in a "calculated form" for each sign, and, if the calculated form falls between any two form denominations, the higher form denomination shall be used. 299

Revised paragraph 299 effective November 16, 1965 —
Standard for Electric Signs, Eighth Edition, UL 48

Subject 857 November 29, 1965

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214 Labels for busways and associated fittings incorporate the Label Service Symbol 214

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together with the designation "Busway" or "Short-Run Busway" and a number, by means of which the Laboratories maintains a record of the manufacturer to whom the labels are released, the date of release, and the approximate date of use. It is recommended that, insofar as possible, manufacturers use the labels consecutively with respect to these numbers.

215 The "Busway" labels are of the combination type only and the "Short-Run Busway" labels are of the standard type only. In addition to the label wording in paragraph 214, combination labels shall also bear the manufacturer's name or identification symbol and may include other nameplate data. Combination labels may be of any design and material which are acceptable to the manufacturer and to Underwriters' Laboratories, Inc. Orders for the manufacture of combination labels must be placed with the Laboratories and be accompanied by a remittance drawn payable to Underwriters' Laboratories, Inc., to cover manufacturing cost. Following manufacture, the labels are stocked at the appropriate Label Center. 215

159

Revised paragraphs 214 and 215 effective November 29, 1965 — Standard for Busways and Associated Fittings, Fourth Edition, UL 857

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TABLE II
SPACINGS AT WIRING TERMINALS

Potential Involved in Volts	Minimum Spacings in Inches		
	Between Wiring Terminals, Through Air, or Over Surface	Between Terminals and Other Uninsulated Metal Parts Not Always of the Same Polarity [a]	
		Over Surface	Through Air
250 or less	¼	¼	¼
More than 250	½ [b]	½ [b]	⅜

[a] Applies to the sum of the spacings involved where an isolated dead part is interposed.

[b] A spacing of no less than ⅜ inch, through air and over surface, is acceptable at wiring terminals in a wiring compartment or terminal box if the compartment or box is integral with a motor.

Revised Table II effective September 15, 1965 — Standard for Motor-Operated Appliances, Third Edition, UL 73

Subject 62 November 24, 1965

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166 TYPE SPT-1, SP-2, SPT-2, SP-3, OR SPT-3 CORD WITH A GROUNDING CONDUCTOR — The cord shall employ the integral construction, except that it shall have a centrally located, non-integral grounding conductor of the same Awg size as the other conductors. The grounding conductor shall have a covering of a green compound with or without one straight or helical unbroken yellow stripe that occupies no more than 40 percent of the conductor circumference, for which compound, except in Type SPT-1 cord, the composition, physical properties, and minimum thickness are not specified; but the thickness of the covering shall be approximately 1/64 inch. In Type SPT-1 cord, the physical properties of the grounding-conductor insulation colored green or green with a yellow stripe shall be as specified for the other two conductors, and the thickness shall be as specified for 1/64-inch insulation in Table 36. 166

167 The cord shall comply with the requirement in paragraph 164; and, in addition, the conductor colored green or green with a yellow stripe shall be separable from the two insulated conductors in such manner that the green compound or the green compound and the yellow stripe will be visible throughout the torn section; but the means of providing for that separation is not specified. 167

Revised paragraphs 166 and 167 effective October 25, 1965 — Standard for Flexible Cord and Fixture Wire, Seventh Edition, UL 62

the circuit conductors may be No. 14 Awg.

Revised item D in paragraph 14 effective October 25, 1965 — Standard for Flexible Cord and Fixture Wire, Seventh Edition, UL 62

B. If the cord complies with all of the following conditions that are applicable:

1. The cord is to consist of four insulated conductors, one of which is a grounding conductor with insulation colored green with or without one straight or helical unbroken yellow stripe that occupies no more than 40 percent of the conductor circumference.

Revised item B in paragraph 227A effective October 24, 1965 — Standard for Flexible Cord and Fixture Wire, Seventh Edition, UL 62

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PROTECTORS FOR COMMUNICATION CIRCUITS

UL 497

NOVEMBER, 1965

ASA C33.22-1965
UDC 621.316.619-781
November 12, 1965

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OUTLET BOXES AND FITTINGS FOR USE IN HAZARDOUS LOCATIONS, CLASS I, GROUPS A, B, C, AND D, AND CLASS II, GROUPS E, F, AND G

UL 886

Fifth Edition

DECEMBER, 1965

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ELECTRICALLY CONDUCTIVE FLOORINGS

UL 779

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National Electrical Manufacturers Association

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ELECTRICAL CONSTRUCTION MATERIALS LIST

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SEE ALSO ELECTRICAL APPLIANCE AND UTILIZATION EQUIPMENT LIST

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UL 497

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THERMAL PROTECTORS FOR MOTORS

UL 547

JANUARY, 1966

ASA C33.2f-1966
UDC 621.316.925.44:621.313
January 21, 1966

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COUPLINGS FOR RUBBER-LINED FIRE HOSE

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Standard for Condensing Units, Refrigeration

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115 Except as indicated in paragraphs 115A and 117, an overcurrent protective device or a thermal protective device on a condensing unit having more than one motor wired for the connection of one supply line shall, when tested, withstand short-circuiting without creating a fire or shock hazard when protected by a fuse rated at 225 percent of the full-load current of the largest hermetic motor of the group plus an amount equal to the sum of any additional loads supplied. If a hermetic motor is not supplied, the fuse is to be rated at 400 percent of the full-load current of the largest motor of the group plus an amount equal to the sum of any additional loads supplied.

115A Where the fuse size calculated as described in paragraph 115 is less than 15 amperes, a 15-ampere fuse is to be employed.

Paragraph 115 revised and paragraph 115A added August, 1966 — Standard for Condensing Units, Refrigeration, Third Edition, UL 303.

116A Motor-circuit fuseholders installed in condensing units are to be suitable for use with fuses sized as indicated in paragraph 116, except as indicated in paragraph 116B. The fuses are to be installed in the fuseholders.

116B With reference to paragraph 116A, a smaller fuseholder may be employed with a hermetic motor, but in no case smaller than for fuses rated at 175 percent of the full-load current of the hermetic motor plus the sum of any additional loads supplied.

Paragraphs 116A and 116B added August, 1966 — Standard for Condensing Units, Refrigeration, Third Edition, UL 303.

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25 **A switch (other than a through-cord switch), a lampholder, an attachment-plug receptacle, a motor-attachment plug, or similar component shall be mounted securely and, except as noted in paragraphs 25A and 25B, shall be prevented from turning. See paragraph 26.** 25

25A The requirement that a switch be prevented from turning might be waived if all four of the following conditions are met: 25A

A. The switch is to be of the plunger or other type that does not tend to rotate when operated. (A toggle switch is considered to be subject to forces that tend to turn the switch during normal operation of the switch.)

B. The means of mounting the switch is to make it unlikely that operation of the switch will loosen the switch.

C. The spacings are not to be reduced below the minimum acceptable values if the switch does rotate.

D. Normal operation of the switch is to be by mechanical means rather than by direct contact by persons.

25B A lampholder of the type in which the lamp cannot be replaced (such as a neon pilot or indicator light in which the lamp is sealed in by a nonremovable jewel) need not be prevented from turning if the rotation cannot reduce spacings below the minimum acceptable values. 25B

26 The means by which the turning mentioned in paragraph 25 is prevented is to include more than friction between surfaces — e.g., a suitable lockwasher, properly applied, is acceptable as a means to prevent turning of a device having a single-hole mounting means. 26

Revised paragraphs 25 and 26 and added paragraphs 25A and 25B effective March 4, 1966 — Standard for Beauty-Parlor Equipment, First Edition, UL 859

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32 In certain instances in which the oxidation of iron or steel due to the exposure of the metal to air and moisture is not likely to be appreciable — thickness of metal and temperature also being factors — surfaces of sheet-steel and cast-iron parts within an enclosure may not be required to be protected against corrosion. The requirement in the preceding paragraph does not apply to bearings, laminations, or minor parts of iron or steel, such as washers, screws, and the like. 32

Revised paragraph 32 effective March 4, 1966 — Standard for Beauty-Parlor Equipment, First Edition, UL 859

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9 The conductor of a Type SA wire shall be of soft-annealed copper. For a wire other than Type SA, the conductor shall be of soft-annealed copper or, in the No. 12 Awg and larger sizes, aluminum of the electrical-conductor (EC) grade. If aluminum is employed, No. 8 Awg and smaller solid conductors shall be semiannealed (three-quarter hard); No. 6 Awg and larger solid conductors and all sizes of stranded conductors that are not compact-stranded shall be either semiannealed or hard-drawn; and all sizes of compact-stranded conductors shall be semi-annealed before compacting. Semiannealed aluminum shall have a tensile strength of 18,500 ± 3,500 pounds per square inch. 9

10 No individual conductor, whether solid or stranded, shall be smaller than No. 14 Awg. The diameter of a solid conductor and the cross-sectional area of a concentric-lay-stranded conductor (the sum of the cross-sectional areas of its component strands) shall be as indicated in Table 2, with a minus tolerance of one percent of the diameter of a solid conductor and two percent of the circular-mil area of a stranded conductor. The size of a round compact-stranded aluminum conductor shall be checked by measuring the conductor resistance (see paragraphs 16 and 17 and Table 4) by means of a suitable Kelvin-bridge ohmmeter or its equivalent. The sizes in which the various types of wire are recognized are indicated in Tables 1 and 14. 10

11 If tin or other metal coating is employed, measurements of the diameter of a solid conductor are to be made over such coating by means of a micrometer caliper having flat surfaces on both anvil and end of spindle and graduated to read directly to mils, at least, and preferably to tenths of a mil. It may be assumed that any solid wire or round strand will be practically constant in diameter. 11

Revised paragraphs 9, 10, and 11 effective March 4, 1966 — Standard for Rubber-Insulated Wires and Cables, Sixth Edition, UL 44

Subject 873 February 15, 1966

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101 In a stationary device the provision of a knockout or other suitable opening in the enclosure for the connection of armored cable, conduit, metal raceway, or the like, and in a portable device the provision of a multiple-conductor cord with one conductor other than a circuit conductor connected to the frame or enclosure of the device, are acceptable as means for grounding. At the end of such a cord, where connection is made to an outlet, it is required that there be a fixed contacting member in the attachment plug for grounding the extra conductor. An insulated grounding conductor of a flexible cord is to be green with or without a yellow stripe, and no other lead is to be so identified. 101

Revised paragraph 101 effective December 16, 1965 — Standard for Temperature-Indicating and -Regulating Equipment, Sixth Edition, UL 873

74A **The surface of an insulated lead intended solely for the connection of an equipment-grounding conductor shall be green with or without a yellow stripe, and no other lead in a field-wiring-terminal compartment shall be so identified.** 74A

Added paragraph 74A effective December 16, 1965 — Standard for Temperature-Indicating and -Regulating Equipment, Sixth Edition, UL 873

Subject 197 **April 6, 1966**

X-TH 9237

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5 MAY 26 1966

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78 **An appliance provided with surface-type heating elements and having a total rating of more than 50 amperes shall have two or more circuits, each provided with overcurrent protection rated at no more than 50 amperes.** 78

Revised paragraph 78 effective April 6, 1966 — Standard for Commercial Electric Cooking Appliances, Second Edition, UL 197

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SANTA CLARA CALIF 95050

Subject 758

Melville, New York
May 10, 1968

To: Electrical Council of Underwriters' Laboratories, Inc.,
and
Manufacturers of Labeled Appliance-Wiring Material

Subject: Revised Requirements for Machine-Tool Wires and Cables

Accompanying this bulletin is a copy of the May 10, 1968, Provisional Requirements for Machine-Tool Wires and Cables, which supersedes the February 1, 1966 issue of the requirements and becomes effective immediately.

The revision is due mainly to the inclusion of requirements for the neoprene jacket which was covered in the Laboratories' bulletin of March 27, 1968.

Anyone wishing to use a neoprene jacket in lieu of a plastic jacket with his machine-tool cable and desiring to label the product should contact the Laboratories' office with which he normally deals.

REVIEWED BY:

Howard Reymers

HOWARD REYMERS
Associate Managing Engineer
Electrical Department

UNDERWRITERS' LABORATORIES, INC.

E. F. Schuster

E. F. SCHUSTER
Senior Project Engineer
Electrical Department

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B. MAR 2 7 1968

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51A A wire-binding screw intended for the connection of an equipment-grounding conductor shall have a green-colored head that is hexagonal-shaped, slotted, or both. A pressure wire connector intended solely for the connection of such a conductor shall be plainly identified, such as by being marked *G, GR, Ground, Grounding,* or the like or by a suitable marking on a wiring diagram provided on the appliance. The wire-binding screw or pressure wire connector shall be so located that it is unlikely to be removed during normal servicing of the appliance. 51A

Revised paragraph 51A effective March 20, 1968 — Standard for Home-Laundry Equipment, Second Edition, UL 560

222B Unless the roll pressure is automatically released when the rolls are stopped, the wringer shall be provided with a safety release having an operating member plainly marked to indicate its function and method of operation. The release mechanism shall be readily accessible and operable from the infeed side of the wringer frame for a nonreversible-type wringer having only one release, or from both sides in the same manner for any other wringer, and shall be such that a steadily applied force of no more than 15 pounds on the release bar will release the maximum roll pressure, as determined by a test with a board as described in paragraph 223A. 222B

Revised paragraph 222B effective March 20, 1968 — Standard for Home-Laundry Equipment, Second Edition, UL 560

222D The force on the release bar mentioned in paragraph 222B shall operate the release mechanism when applied horizontally and perpendicular the the axis of the wringer rolls. For a reversible- or a nonreversible-feed wringer with a release bar on both sides, the force shall be applied in the direction of infeed to the rolls. For a nonreversible-type wringer with release bar on the infeed side only, the force shall be applied both in the direction of infeed to the rolls and in the direction opposite to the infeed to the rolls.

Revised paragraph 222D effective March 20, 1968 — Standard for Home-Laundry Equipment, Second Edition, UL 560

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5 - MAR 21 1969
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Subject 67
Subject 358

Chicago, Ill.
January 31, 1969

TO: Electrical Council of Underwriters' Laboratories, Inc.
and
Manufacturers of Labeled Panelboards, and
Manufacturers of Labeled Panel-Base Assemblies.

SUBJECT: Revision of the Standard for Panelboards, and Elimination of the Classification "Panel-Base Assemblies."

Accompanying this bulletin are the reissued and additional pages for the Standard for Panelboards resulting from the revisions mentioned in the bulletin of January 2, 1969. The revisions are now effective, except those for Paragraphs 180A, 181, 192B, and 224; and these will become effective on January 31, 1970. A discussion of the changes in construction or marking that will be necessary as a result of the adoption of these four paragraphs will be found on the following pages.

PARAGRAPH 180A:

This paragraph requires that an enclosed panelboard or panel-base assembly intended for outdoor use and having an opening for a plug-in meter shall be marked "Outdoor Type" rather than "Raintight."

PARAGRAPH 181:

This paragraph requires that the manufacturer's name or trade-mark, the current and voltage ratings, and the number of phases shall be visible without disturbing interior parts or wiring. This paragraph will require the relocation or rearrangement of many wiring diagrams. It is possible that wiring diagrams may be relocated so that the manufacturer's name or trade-mark, the current and voltage ratings, and the indication of the number of phases are located within the area considered to be

X-TH 9237
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* A suitable aluminum alloy is acceptable for the screw-shells of lampholders other than those of the weatherproof type and those employed in outdoor types of electric signs and certain outdoor types of electric fixtures. The alloy is limited to 1.0 percent of impurities (including a maximum of 0.2 percent of copper), and has a tensile strength of not less than 34,000 pounds per square inch.

Single-asterisk note in table in paragraph 82 revised October, 1950—Standard for Edison-Base Lampholders